Human N-Acetylglutamate Synthase, Mitochondrial (NAGS) ELISA Kit | NAGS elisa kit

Human N-Acetylglutamate Synthase, Mitochondrial (NAGS) ELISA Kit

CATALOG #	REACTIVITY
AAA331550	**Human**

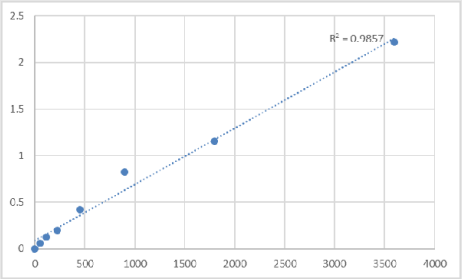
PRODUCT SYNONYMS

N-Acetylglutamate Synthase; Mitochondrial (NAGS); Human N-Acetylglutamate Synthase; Mitochondrial (NAGS) ELISA Kit; NAGS; AGAS; ARGA; MGC133025; NAGS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human N-acetylglutamate synthase, mitochondrial (NAGS) ELISA Kit has high sensitivity and excellent specificity for detection of Human NAGS. No significant cross-reactivity or interference between Human NAGS and analogues was observed.
Sequence Length	534
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)
Fig.1. Human N-acetylglutamate synthase, mitochondrial (NAGS) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for NAGS elisa kit	Description: This Human N-acetylglutamate synthase, mitochondrial (NAGS) ELISA Kit employs a two-site sandwich ELISA to quantitate NAGS in samples. An antibody specific for NAGS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any NAGS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for NAGS is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of NAGS bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The N-acetylglutamate synthase gene encodes a mitochondrial enzyme that catalyzes the formation of N-acetylglutamate (NAG) from glutamate and acetyl coenzyme-A. NAG is a cofactor of carbamyl phosphate synthetase I (CPSI), the first enzyme of the urea cycle in mammals. NAGS may regulate ureagenesis by altering NAG availability and, thereby, CPSI activity. Deficiencies in N-acetylglutamate synthase have been associated with hyperammonemia.

NCBI AND UNIPROT INFORMATION

NCBI GI #	74714699
NCBI GeneID	162417
UniProt Accession #	Q8N159
NCBI Official Full Name	N-acetylglutamate synthase, mitochondrial
NCBI Official Synonym Full Names	N-acetylglutamate synthase
NCBI Official Symbol	NAGS
NCBI Official Synonym Symbols	AGAS; ARGA
NCBI Protein Information	N-acetylglutamate synthase, mitochondrial
UniProt Protein Name	N-acetylglutamate synthase, mitochondrial
UniProt Gene Name	**NAGS**
UniProt Entry Name	NAGS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/human-elisa-kits/n-acetylglutamate-synthase-mitochondrial-nags/331550